From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

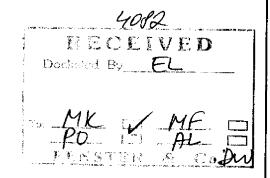
(PCT Rule 44bis,1(c))

To:

FENSTER, Paul FENSTER & COMPANY, INTELLECTUAL PROPERTY 2002 LTD. P.O. BOX 10256 49002 PETACH TIKVA ISRAËL

IMPORTANT NOTICE
onth/year) Priority date (day/month/year) .12.2004) Priority date (day/month/year) 15 January 2004 (15.01.200
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The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)



The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 032/04082	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/IL2004/001168	International filing date (day/month/year) 26 December 2004 (26.12.2004)	Priority date (day/month/year) 15 January 2004 (15.01.2004)	
International Patent Classification (8th See relevant information in Form P	edition unless older edition indicated) CT/ISA/237		
Applicant ALGOTEC SYSTEMS LTD.			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.					
		ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.				
3.	This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Вох №. П	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				
		Date of issuance of this report 17 July 2006 (17.07.2006)				

Authorized officer

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The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

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	see form P	CT/ISA/220			TTEN OPINION OF THE ONAL SEARCHING AUTHOR
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)
	ant's or agent's file r			FOR FURTHE See paragraph 2 b	
	ational application N		International filing date (Priority date (day/month/year)
	1L2004/001168		26.12.2004		15.01.2004
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Applica					
\LG(OTEC SYSTEM	IS LTD.			
	This opinion co	ntains indicat	ions relating to the foll	owing items:	
	⊠ Box No. i	Basis of the o	pinlon		
	Box No. II	Priority	p		
	Box No. III		ment of opinion with reg	ard to novelty, inve	ntive step and industrial applicability
	☐ Box No. IV	Lack of unity		-	•
	⊠ Box No. V	Reasoned sta		s.1(a)(i) with regards	to novelty, inventive step or industrial
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	☐ Box No. VI		ments cited		
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL2004/001168

	Box No. I Basis of the opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material:
	☐ a sequence listing
	□ table(s) related to the sequence listing
	b. format of material:
	☐ in written format
	in computer readable form
	c. time of filing/furnishing:
	☐ contained in the international application as filed.
	filed together with the international application in computer readable form.
	☐ furnished subsequently to this Authority for the purposes of search.
3	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/L2004/001168

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-33

No:

Claims

Yes: Claims

1-33

Claims No:

Industrial applicability (IA)

Inventive step (IS)

Yes: Claims

1-33

No: Claims

2. Citations and explanations

see separate sheet

- 1. Reference is made to the following documents:
 - D1: US 2002/100009 A1 (Xing et al.) 25 July 2002
 - D2: Sethian: "Evolution, implementation, and application of level set and fast marching methods for advancing fronts" Journal of Computational Physics Academic Press USA, vol. 169, no. 2, 20 May 2001, pages 503-555
 - D3: Deschamps et al.: "Fast extraction of minimal paths in 3D images and applications to virtual endoscopy" Medical Image Analysis, Oxford University Press, Oxford, GB, vol. 5, 2001, pages 281-299, cited in the application
- 2. <u>Item V:</u> Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 2.1 The present application meets the requirements of Articles 33(2) and 33(3) PCT because the subject matter of claim 1 appears to be novel and inventive, the reasons being as follows:

As to claim 1:

D1 discloses:

- A method of finding a path from a start point to a target point, in multi-dimensional space (see abstract, lines 1-4 and page 1, paragraph [0012]), comprising:
- (a) determining a plurality of points in a physical space, including a start point and an target point (see page 1, paragraph [0012] and page 3, paragraph [0049]);
- (b) computing, using a cost function, for said points an accumulated path cost from the start point to a point; representing a minimal cost path from the start point to the point with respect to an optimization criteria (see page 1, paragraph [0014] and page 3, paragraphs [0056]-[0057]);
- © computing for at least some of said points an estimated-cost-to-target from a point to the target point (see page 3, paragraphs [0056]-[0057] supported by page 5, paragraphs [0068]-[0073] and figures 22 and 23); and
- wherein the determination is based on said accumulated path costs, and is substantially minimal with respect to the optimization criteria (see page 3, paragraph [0057]).

PCT/IL2004/001168

D1 however fails to disclose:

- (d) after computing said costs, determining at least one of a minimal path or a minimal path cost of a path from the start point to the target point in the physical space.

The system of D1 determines the minimal path in a tile graph (see page 3, paragraphs [0053]-[0057]) and not in the physical space.

An inventive step can be acknowledged.

- 2.2 The independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(I) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
- 2.3 The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 2.4 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor are these documents identified therein.